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APPLICANT : DAIDO STEEL CO LTD;

INVENTOR : KATO YOSHIHISA;

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TITLE : WORKING TOOL FOR HOT WORKING CR STEEL

ABSTRACT : PURPOSE: To inhibit seizing and to prevent the occurrence of surface defects on a material to be worked or treated by forming a W-based build-up layer on the surface of a tool brought into contact with the material to be worked or treated.

CONSTITUTION: A W-based build-up layer is formed on at least the surface of the base material of a hot working tool brought into contact with Cr steel as a material to be worked or treated. At least the surface layer of the build-up layer preferably contains >0-20vol.% NbC and ≥ 60 vol.%, in total, of W and NbC. Since the build-up layer formed on the tool has a small affinity for Cr and a high m.p., seizing is hardly caused, surface defects on the material to be worked are reduced and the soundness of the surface of the material can be improved. The service life of the tool can also be prolonged.

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